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TITLE : LENS FOR USE IN OPTICAL FILTER

ABSTRACT : PURPOSE: To enhance surface hardness and to prevent deterioration of transparency due to abrasion of the surface by using a lens composed of a surface layer made of a glass or ceramic lens specified in thickness and an inner layer made of a polarizing anisotropic org. polymer lens.

CONSTITUTION: The surface layer of a lens for use in an optical filter is formed of a 0.1~2mm glass or ceramic lens, and its inner layer is formed of a 0.5~5mm thick anisotropic org. polymer lens having polarizing characteristics. For example, the convex side of a spherical lens of a uniaxially stretched 6-10 nylon is subjected to a polarizing treatment with an alcoholic soln. of I-KI, and bonded to the concave side of a spherical lens of quartz glass. As a result, the obtained optical filter lens is high in surface hardness and small in deterioration of transparency due to surface abrasion, and light in weight.

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